



Solving Problems Involving Chords, Radii, Tangents, Secants and Arcs within the Same Circle – Grade Ten

Attachment A Pre-Assessment Worksheet

Name _____

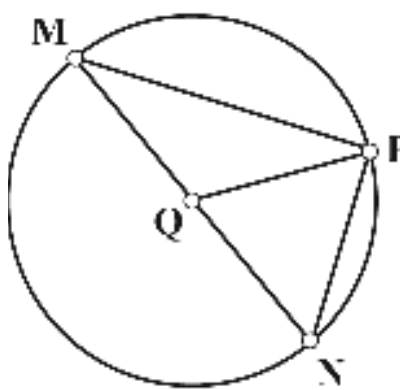
Directions: For questions 1-3, find the measure of each arc or angle. Remember to show your calculations next to each problem.

Given: MN is the diameter of $\odot Q$. $\angle PQM = 140^\circ$
(calculations)

_____ 1. $\angle PNM$

_____ 2. \widehat{PN}

_____ 3. $\angle PMN$



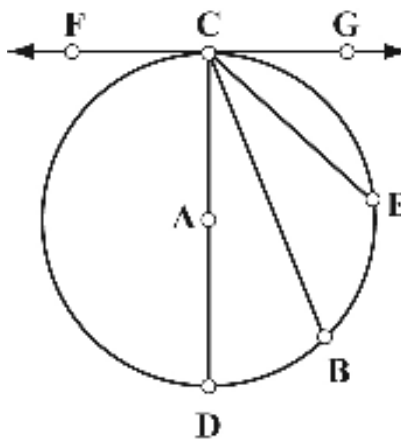
For questions 4-5, find the measure of each arc or angle. Remember to show your calculations next to each problem.

Given: \overleftrightarrow{FG} is tangent to $\odot A$. $\angle DCB = 20^\circ$; $\widehat{CE} = 80^\circ$

(calculations)

_____ 4. $\angle GCE$

_____ 5. $\angle BCE$





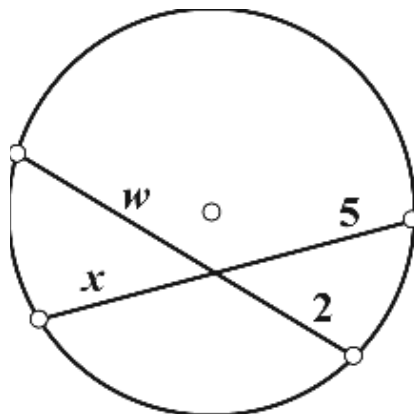
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Attachment A (continued) Pre-Assessment Worksheet

Directions: For questions 6-8, find the measure of each segment. Remember to show your calculations next to each problem.

_____ 6. If $w = 10$, find x .

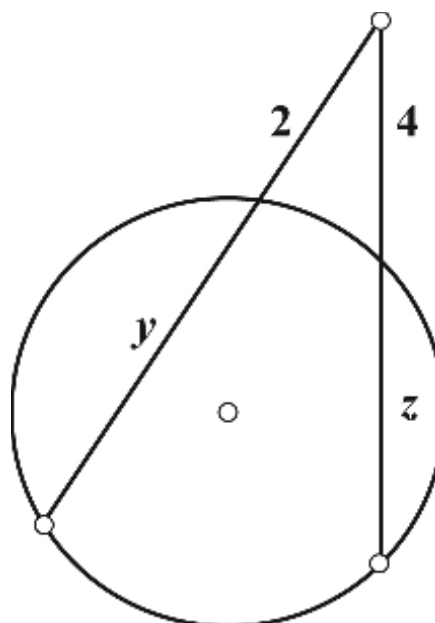
Calculations:



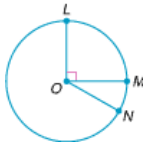
_____ 7. If $z = 8$, find y .

_____ 8. If $y = 10$, find z .

Calculations:



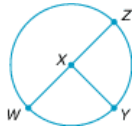
1. In circle O , $m\angle MON = 25$. Find $m\widehat{LN}$.



- ☐ A. 115
 ☐ B. 65
☐ C. 90
 ☐ D. 25

[Hint](#)

2. In circle X , $WX = 16$ and $m\angle ZXY = 88$. Find the length of \widehat{ZY} to the nearest tenth.



- ☐ A. 24.6
 ☐ B. 1.6
☐ C. 7.8
 ☐ D. 12.3

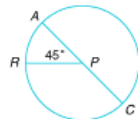
[Hint](#)

3. **Time** What is the measure of the angle formed by the hands of a clock at 4 o'clock?

- ☐ A. 90
 ☐ B. 120
☐ C. 60
 ☐ D. 30

[Hint](#)

4. P is the center of the circle. Find $m\widehat{RC}$.



- ☐ A. 135
 ☐ B. 45
☐ C. Not enough information is given.
 ☐ D. 7.2

[Hint](#)

5. In $\odot J$, KM is a diameter with $JL = 18$ and $m\angle KJL = 140$. Find the length of \widehat{LM} .



- ☐ A. 113.1
 ☐ B. 6.3
☐ C. 44.0
 ☐ D. 12.6

[Hint](#)